

## TruStability<sup>®</sup> Board Mount Pressure Sensors: SSC Series—Standard Accuracy

Amplified Compensated Digital Output,  
 $\pm 2.5$  mbar to  $\pm 40$  mbar  
[ $\pm 1$  inH<sub>2</sub>O to  $\pm 30$  inH<sub>2</sub>O]



### DESCRIPTION

The TruStability<sup>®</sup> Standard Accuracy Silicon Ceramic (SSC) Series is a piezoresistive silicon pressure sensor offering a digital output for reading pressure over the specified full scale pressure span and temperature range.

The SSC Series is fully calibrated and temperature compensated for sensor offset, sensitivity, temperature effects, and non-linearity using an on-board Application Specific Integrated Circuit (ASIC). Calibrated output values for pressure are updated at approximately 2 kHz.

The SSC Series is calibrated over the temperature range of  $-20$  °C to  $85$  °C [ $-4$  °F to  $185$  °F]. The sensor is characterized for operation from a single power supply of either 3.3 Vdc or 5.0 Vdc.

These sensors measure differential and gage pressures. Differential versions allow application of pressure to either side of the sensing diaphragm. Gage versions are referenced to atmospheric pressure and provide an output proportional to pressure variations from atmosphere.

The SSC Series sensors are intended for use with non-corrosive, non-ionic working fluids. They are designed and manufactured according to standards in ISO 9001.

### FEATURES AND BENEFITS (★=competitive differentiator)

- ★ **Proprietary Honeywell technology:** Combines high sensitivity with high overpressure and burst pressure—two performance factors that are difficult to achieve in the same product; this gives the customer more flexibility in sensor implementation and reduces the customer design requirements for protecting the sensor without sacrificing the ability to sense very small changes in pressure
- ★ **Industry-leading long-term stability:** Even after long-term use and thermal extremes, these sensors perform substantially better relative to stability than any other pressure sensor available in the industry today:
  - Minimizes system calibration needs
  - Maximizes system performance
  - Helps support system uptime by eliminating the need to service or replace the sensor during its application life
- ★ **Industry-leading Total Error Band (TEB):** Honeywell specifies TEB—the most comprehensive, clear, and meaningful measurement—that provides the sensor's true accuracy over a compensated range of  $-20$  °C to  $85$  °C [ $-4$  °F to  $185$  °F].
  - Eliminates individually testing and calibrating every sensor, which can increase their manufacturing time and process
  - Supports system accuracy and warranty requirements
  - Helps to optimize system uptime
  - Provides excellent sensor interchangeability—there is minimal part-to-part variation in accuracy

# TruStability® Board Mount Pressure Sensors: SSC Series—Standard Accuracy

- ★ **Industry-leading accuracy:** Extremely tight accuracy of  $\pm 0.25$  %FSS BFSL (Full Scale Span Best Fit Straight Line):
  - Reduces software needs to correct system inaccuracies, minimizing system design time
  - Supports system accuracy and warranty requirements
  - Helps to optimize system uptime
- ★ **High burst pressures above 415 inH<sub>2</sub>O (1034 mbar):**
  - Allows the sensor to endure a wide range of conditions while maintaining a high level of sensitivity which measures even the smallest change in pressure
  - Can simplify the design process
- ★ **High working pressure ranges above 135 inH<sub>2</sub>O (336 mbar):** Allows ultra-low pressure sensors to be used continuously well above the calibrated pressure range
- ★ **Industry-leading flexibility**
  - Modular, flexible design with many package styles (with the same industry-leading stability), pressure ports, and options simplify integration into the device manufacturer's application
  - Available soon: single side liquid media option allows the end customer to use one port of the sensor with condensing humidity or directly with non-corrosive liquid media
- ★ **Repeatability:** Provides excellent repeatability, high accuracy and reliability under many demanding conditions
- ★ **Onboard signal conditioning:** Typically allows for the removal of signal conditioning components from the PCB, reducing costs and simplifying production processes
- ★ **Wide variety of pressure ranges:** From  $\pm 2.5$  mbar to  $\pm 40$  mbar [ $\pm 1$  inH<sub>2</sub>O to  $\pm 30$  inH<sub>2</sub>O] provide support for many unique applications
- ★ **Meets IPC/JEDEC J-STD-020D.1 Moisture Sensitivity Level 1 requirements:**
  - Allows the customer to avoid the thermal and mechanical damage during solder reflow attachment and/or repair that lesser rated products would incur
- Allows unlimited floor life when stored as specified ( $\leq 30$  °C/85 %RH), simplifying storage and reducing scrap
- ★ **Insensitive to mounting orientation:**
  - Allows customers to position the sensor in the most optimal point in the system, eliminating the concern for positional effects
  - Increases flexibility of use within the application
- ★ **Insensitive to vibration:** Reduces susceptibility to application-specific vibration that occurs with changes in pressure, minimizing inaccurate pressure readings
- ★ **Custom calibration:** Typically allows for the removal of additional components associated with signal conditioning from the PCB, reducing PCB size as well as costs often associated with those components (e.g., acquisition, inventory, assembly)
- ★ **Internal diagnostic functions:** Increases system reliability
- **Energy efficient:** Extremely low power consumption (less than 10 mW, typ.):
  - Reduces power consumption
  - Provides extended battery life
  - Promotes energy efficiency
- **Output:** I<sup>2</sup>C- or SPI-compatible 14-bit digital output (min. 12-bit sensor resolution) accelerates performance through reduced conversion requirements and the convenience of direct interface to microprocessors or microcontrollers; analog output also available
- **Small size:** Miniature 10 mm x 10 mm [0.39 in x 0.39 in] package is very small when compared to most board mount pressure sensors:
  - Occupies less area on the PCB
  - Typically allows for easy placement on crowded PCBs or in small devices
- **RoHS compliant**
- **Protected by multiple global patents**

## POTENTIAL APPLICATIONS

- **Medical:**
  - Ventilators
  - Anesthesia machines
  - Spirometers
  - Nebulizers
  - Hospital room air pressure
- **Industrial:**
  - VAV (Variable Air Volume) control
  - Static duct pressure
  - Clogged HVAC (Heating, Ventilation, and Air Conditioning) filter detection
  - HVAC transmitters
  - Indoor air quality

For more information on these potential applications, please see the application note [“Honeywell TruStability® Board Mount Pressure Sensors: HSC Series and SSC Series, Amplified Compensated Digital or Analog Output,  \$\pm 2.5\$  mbar to  \$\pm 40\$  mbar \[ \$\pm 1\$  inH<sub>2</sub>O to  \$\pm 30\$  inH<sub>2</sub>O\]”](#).

±2.5 mbar to ±40 mbar [±1 inH<sub>2</sub>O to ±30 inH<sub>2</sub>O]

**Table 1. Absolute Maximum Ratings<sup>1</sup>**

Parameter	Min.	Max.	Unit
Supply voltage (V <sub>supply</sub> )	-0.3	6.0	Vdc
Voltage on any pin	-0.3	V <sub>supply</sub> + 0.3	V
Digital interface clock frequency:			
I <sup>2</sup> C	100	400	kHz
SPI	50	800	
ESD susceptibility (human body model)	2	-	kV
Storage temperature	-40 [-40]	85 [185]	°C [°F]
Soldering time and temperature:			
Lead solder temperature (SIP, DIP)		4 s max. at 250 °C [482 °F]	
Peak reflow temperature (SMT)		15 s max. at 250 °C [482 °F]	

**Table 2. Operating Specifications**

Parameter	Min.	Typ.	Max.	Unit
Supply voltage (V <sub>supply</sub> ) <sup>2</sup> :				
3.3 Vdc	3.27	3.3 <sup>3</sup>	3.33	Vdc
5.0 Vdc	4.95	5.0 <sup>3</sup>	5.05	
<i>Sensors are either 3.3 Vdc or 5.0 Vdc based on listing selected.</i>				
Supply current:				
3.3 Vdc supply	-	1.6	2.1	mA
5.0 Vdc supply	-	2	3	
Compensated temperature range <sup>4</sup>	-20 [-4]	-	85 [185]	°C [°F]
Operating temperature range <sup>5</sup>	-40 [-40]	-	85 [185]	°C [°F]
Startup time (power up to data ready)	-	2.8	7.3	ms
Response time	-	0.46	-	ms
SPI/I <sup>2</sup> C voltage level low	-	-	0.2	V <sub>supply</sub>
SPI/I <sup>2</sup> C voltage level high	0.8	-	-	V <sub>supply</sub>
Pull up on SDA/MISO, SCL/SCLK, SS	1	-	-	kOhm
Accuracy <sup>6</sup>	-	-	±0.25	%FSS <sup>8</sup>
Orientation sensitivity (±1 g) <sup>7</sup>	-	-	±0.15	%FSS
Output resolution	12	-	-	bits

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**Table 3. Environmental Specifications**

Parameter	Characteristic
Humidity: Gases only (See “Options N and D” in Figure 1.) Liquid media (See “Options T and V” in Figure 1.)	0% to 95% RH, non-condensing 100% condensing or direct liquid media on Port 1
Vibration	MIL-STD-202F, Method 214, Condition F (20.7 g random)
Shock	MIL-STD-202F, Method 213B, Condition F
Life <sup>9</sup>	1 million cycles to working pressure min. <sup>10</sup>
Solder reflow	J-STD-020D.1, Moisture Sensitivity Level 1 (unlimited floor life when stored as specified ( $\leq 30$ °C/85 %RH))

**Table 4. Wetted Materials<sup>11</sup>**

Parameter	Port 1 (Pressure Port)	Port 2 (Reference Port)
Covers	high temperature polyamide	high temperature polyamide
Substrate	alumina ceramic	alumina ceramic
Adhesives	epoxy, silicone	epoxy, silicone
Electronic components	ceramic, glass, solder, silicon	silicon, glass, gold, solder

**Notes:**

1. Absolute maximum ratings are the extreme limits the device can withstand without damage to the product. Stresses above these ratings may cause permanent damage. Exposure to absolute maximum conditions for extended periods may degrade device reliability.
2. Ratiometricity of the sensor (the ability of the digital device to maintain performance parameters independent of supply voltage) is achieved when the supply voltage is within the operating specification range.
3. The sensor is not reverse polarity protected. Incorrect application of supply voltage or ground to the wrong pin may cause electrical failure.
4. The compensated temperature range is the temperature range over which the sensor will produce an output proportional to pressure within the specified performance limits.
5. The operating temperature range is the temperature range over which the sensor will produce an output proportional to pressure but may not remain within the specified performance limits.
6. Accuracy: The maximum deviation in output from a Best Fit Straight Line (BFSL) fitted to the output measured over the pressure range at 25 °C [77 °F]. Includes all errors due to pressure non-linearity, pressure hysteresis, and non-repeatability. (See Figure 3.)
7. Orientation sensitivity: The maximum change in offset of the sensor due to a change in position or orientation relative to Earth’s gravitational field.
8. Full Scale Span (FSS): The algebraic difference between the output signal measured at the maximum (Pmax.) and minimum (Pmin.) limits of the pressure range. (See Figure 1 for ranges.)
9. Life may vary depending on specific application in which sensor is utilized. Contact Honeywell Sales and Service for Mean Time to Failure (MTTF) data.
10. Working Pressure: The maximum pressure that may be applied to any port of the sensor in continuous use. This pressure may be outside the operating pressure range limits (Pmin. to Pmax.) in which case the sensor may not provide a valid output until pressure is returned to within the operating pressure range. Tested to 1 million cycles, min. (See Figure 5.)
11. Contact Honeywell Sales and Service for detailed material information.

±2.5 mbar to ±40 mbar [±1 inH<sub>2</sub>O to ±30 inH<sub>2</sub>O]

Figure 1. Nomenclature and Order Guide

<p><b>Series</b></p> <p><b>SSC</b></p>			<p><b>A</b></p>																																																		
<p><b>Package</b>  <b>D</b> = DIP (Dual Inline Pin)  <b>M</b> = SMT (Surface Mount Technology)  <b>S</b> = SIP (Single Inline Pin)</p>			<p><b>Supply Voltage</b>  <b>3</b> = 3.3 Vdc  <b>5</b> = 5.0 Vdc</p>																																																		
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			<p><b>CAUTION</b>  <b>PRODUCT DAMAGE</b></p> <ul style="list-style-type: none"> <li>Ensure liquid media is applied to Port 1 only; Port 2 is not compatible with liquids.</li> <li>Ensure liquid media contains no particulates. All TruStability<sup>®</sup> sensors are dead-ended devices. Particulates can accumulate inside the sensor, causing damage or affecting sensor output.</li> <li>Recommend that the sensor be positioned with Port 1 facing downwards; any particulates in the system are less likely to enter and settle within the pressure sensor if it is in this position.</li> <li>Ensure liquid media does not create a residue when dried; build-up inside the sensor may affect sensor output. Rinsing of a dead-ended sensor is difficult and has limited effectiveness for removing residue.</li> <li>Ensure liquid media are compatible with wetted materials. Non-compatible liquid media will degrade sensor performance and may lead to sensor failure.</li> </ul> <p><b>Failure to comply with these instructions may result in product damage.</b></p>																																																		
			<p>*Indicates available soon.</p>																																																		

Notes:

- The transfer function limits define the output of the sensor at a given pressure input. By specifying Pmin. and Pmax., the output at Pmin. and Pmax., the complete transfer function of the sensor is defined. See Figure 2 for a graphical representation of the transfer function. Other transfer functions are available. Contact Honeywell Customer Service for more information.
- Analog output is also available. Contact Honeywell Customer Service for more information.
- Custom pressure ranges are available. Contact Honeywell Customer Service for more information.
- See Table 5 for an explanation of sensor pressure types.

# TruStability® Board Mount Pressure Sensors: SSC Series–Standard Accuracy

Figure 2. Completed Catalog Listing Example for SSCSANN010NGSA3

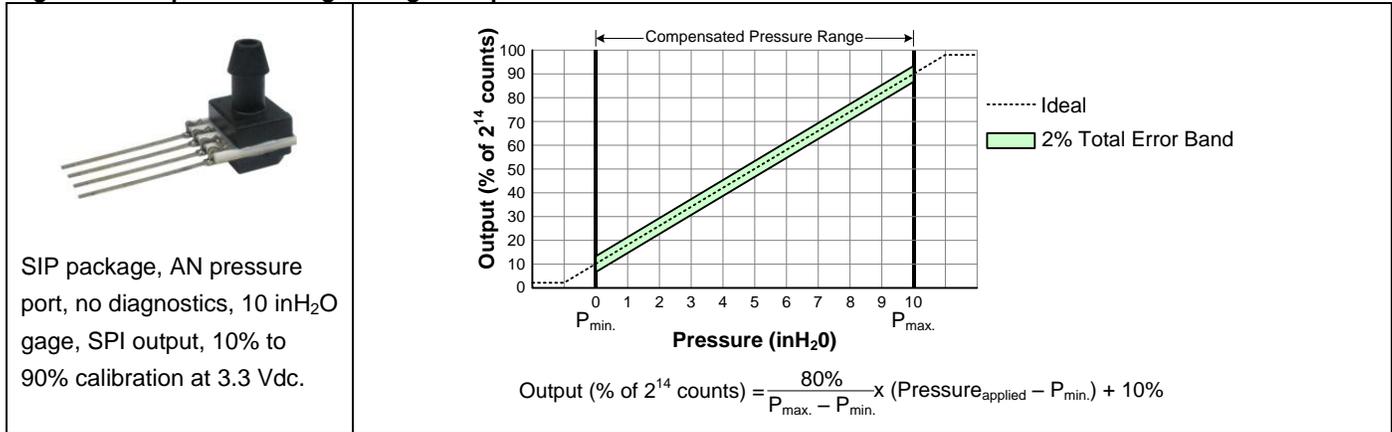


Table 5. Pressure Types

Pressure Type	Description
Differential	Output is proportional to the difference between the pressures applied to each port (Port 1 – Port 2). 50% point of transfer function set at Port 1 = Port 2.
Gage	Output is proportional to the difference between applied pressure and atmospheric (ambient) pressure. P <sub>min.</sub> is set at atmospheric pressure.

Table 6. Sensor Output at Significant Percentages

% Output	Digital Counts (decimal)	Digital Counts (hex)
0	0	0x0000
10	1638	0x0666
50	8192	0x2000
90	14746	0x399A
100	16383	0x3FFF

Table 7. Pressure Range Specifications for ±1 inH<sub>2</sub>O to ±30 inH<sub>2</sub>O

Order Code (See Fig. 1)	Pressure Range		Total Error Band <sup>16</sup>	Total Error Band after Auto-Zero <sup>17</sup>	Long-term Stability (1000 hr, 25 °C [77 °F])	Working Pressure <sup>10</sup>	Over-pressure <sup>18</sup>	Burst Pressure <sup>19</sup>	Common Mode Pressure <sup>20</sup>
	P <sub>min.</sub>	P <sub>max.</sub>							
<b>Differential</b>									
001ND	-1 inH <sub>2</sub> O	1 inH <sub>2</sub> O	±5 %FSS	±2 %FSS	±0.5 %FSS	135 inH <sub>2</sub> O	270 inH <sub>2</sub> O	415 inH <sub>2</sub> O	1400 inH <sub>2</sub> O
002ND	-2 inH <sub>2</sub> O	2 inH <sub>2</sub> O	±2.5 %FSS	±1.25 %FSS	±0.5 %FSS	135 inH <sub>2</sub> O	270 inH <sub>2</sub> O	415 inH <sub>2</sub> O	1400 inH <sub>2</sub> O
004ND	-4 inH <sub>2</sub> O	4 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.5 %FSS	150 inH <sub>2</sub> O	300 inH <sub>2</sub> O	500 inH <sub>2</sub> O	2200 inH <sub>2</sub> O
005ND	-5 inH <sub>2</sub> O	5 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.5 %FSS	150 inH <sub>2</sub> O	300 inH <sub>2</sub> O	500 inH <sub>2</sub> O	2200 inH <sub>2</sub> O
010ND	-10 inH <sub>2</sub> O	10 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.5 %FSS	175 inH <sub>2</sub> O	350 inH <sub>2</sub> O	550 inH <sub>2</sub> O	4200 inH <sub>2</sub> O
020ND	-20 inH <sub>2</sub> O	20 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.35 %FSS	175 inH <sub>2</sub> O	350 inH <sub>2</sub> O	550 inH <sub>2</sub> O	4200 inH <sub>2</sub> O
030ND	-30 inH <sub>2</sub> O	30 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.35 %FSS	175 inH <sub>2</sub> O	350 inH <sub>2</sub> O	550 inH <sub>2</sub> O	4200 inH <sub>2</sub> O
<b>Gage</b>									
002NG	0 inH <sub>2</sub> O	2 inH <sub>2</sub> O	±5 %FSS	±2 %FSS	±0.5 %FSS	135 inH <sub>2</sub> O	270 inH <sub>2</sub> O	415 inH <sub>2</sub> O	1400 inH <sub>2</sub> O
004NG	0 inH <sub>2</sub> O	4 inH <sub>2</sub> O	±2.5 %FSS	±1.25 %FSS	±0.5 %FSS	135 inH <sub>2</sub> O	270 inH <sub>2</sub> O	415 inH <sub>2</sub> O	1400 inH <sub>2</sub> O
005NG	0 inH <sub>2</sub> O	5 inH <sub>2</sub> O	±2.5 %FSS	±1.25 %FSS	±0.5 %FSS	135 inH <sub>2</sub> O	270 inH <sub>2</sub> O	415 inH <sub>2</sub> O	1400 inH <sub>2</sub> O
010NG	0 inH <sub>2</sub> O	10 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.5 %FSS	150 inH <sub>2</sub> O	300 inH <sub>2</sub> O	500 inH <sub>2</sub> O	2200 inH <sub>2</sub> O
020NG	0 inH <sub>2</sub> O	20 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.5 %FSS	175 inH <sub>2</sub> O	350 inH <sub>2</sub> O	550 inH <sub>2</sub> O	4200 inH <sub>2</sub> O
030NG	0 inH <sub>2</sub> O	30 inH <sub>2</sub> O	±2 %FSS	±1.25 %FSS	±0.35 %FSS	175 inH <sub>2</sub> O	350 inH <sub>2</sub> O	550 inH <sub>2</sub> O	4200 inH <sub>2</sub> O

# ±2.5 mbar to ±40 mbar [±1 inH<sub>2</sub>O to ±30 inH<sub>2</sub>O]

**Table 8. Pressure Range Specifications for ±2.5 mbar to ±40 mbar**

Order Code (See Fig. 1)	Pressure Range		Total Error Band <sup>16</sup>	Total Error Band after Auto-Zero <sup>17</sup>	Long-term Stability (1000 hr, 25 °C [77 °F])	Working Pressure <sup>10</sup>	Over-pressure <sup>18</sup>	Burst Pressure <sup>19</sup>	Common Mode Pressure <sup>20</sup>
	P <sub>min.</sub>	P <sub>max.</sub>							
<b>Differential</b>									
<b>2.5MD</b>	-2.5 mbar	2.5 mbar	±5 %FSS	±2 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>004MD</b>	-4 mbar	4 mbar	±3.5 %FSS	±1.5 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>006MD</b>	-6 mbar	6 mbar	±2.5 %FSS	±1.25 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>010MD</b>	-10 mbar	10 mbar	±2 %FSS	±1.25 %FSS	±0.5 %FSS	375 mbar	750 mbar	1250 mbar	5450 mbar
<b>016MD</b>	-16 mbar	16 mbar	±2 %FSS	±1.25 %FSS	±0.5 %FSS	375 mbar	750 mbar	1250 mbar	5450 mbar
<b>025MD</b>	-25 mbar	25 mbar	±2 %FSS	±1.25 %FSS	±0.35 %FSS	435 mbar	850 mbar	1350 mbar	10450 mbar
<b>040MD</b>	-40 mbar	40 mbar	±2 %FSS	±1.25 %FSS	±0.35 %FSS	435 mbar	850 mbar	1350 mbar	10450 mbar
<b>Gage</b>									
<b>004MG</b>	0 mbar	4 mbar	±5 %FSS	±2 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>006MG</b>	0 mbar	6 mbar	±5 %FSS	±2 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>010MG</b>	0 mbar	10 mbar	±2.5 %FSS	±1.25 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>016MG</b>	0 mbar	16 mbar	±2.5 %FSS	±1.25 %FSS	±0.5 %FSS	335 mbar	675 mbar	1000 mbar	3450 mbar
<b>025MG</b>	0 mbar	25 mbar	±2 %FSS	±1.25 %FSS	±0.5 %FSS	375 mbar	750 mbar	1250 mbar	5450 mbar
<b>040MG</b>	0 mbar	40 mbar	±2 %FSS	±1.25 %FSS	±0.5 %FSS	375 mbar	750 mbar	1250 mbar	5450 mbar

**Notes:**

16. Total Error Band: The maximum deviation from the ideal transfer function over the entire compensated temperature and pressure range. Includes all errors due to offset, full scale span, pressure non-linearity, pressure hysteresis, repeatability, thermal effect on offset, thermal effect on span, and thermal hysteresis. (See Figures 3 and 4.)
17. Total Error Band After Auto-Zero: The maximum deviation from the ideal transfer function over the entire compensated pressure range at a constant temperature and supply voltage for a minimum of 24 hours after an auto-zero operation. Includes all errors due to full scale span, pressure non-linearity, pressure hysteresis, and thermal effect on span.
18. Overpressure: The absolute maximum rating for pressure which may safely be applied to the product for it to remain in specification once pressure is returned to the operating pressure range. Exposure to higher pressures may cause permanent damage to the product. Unless otherwise specified this applies to all available pressure ports at any temperature with the operating temperature range. Tested to 10,000 cycles, minimum. (See Figure 5.)
19. Burst Pressure: The maximum pressure that may be applied to any port of the product without causing escape of pressure media. Product should not be expected to function after exposure to any pressure beyond the burst pressure. (See Figure 5.)
20. Common Mode Pressure: The maximum pressure that can be applied simultaneously to both ports of a differential pressure sensor without causing changes in specified performance.

**Table 9. Pinout for SMT and DIP Packages**

Output Type	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
I <sup>2</sup> C	GND	V <sub>supply</sub>	SDA	SCL	NC	NC	NC	NC
SPI	GND	V <sub>supply</sub>	MISO	SCLK	SS	NC	NC	NC

**Table 10. Pinout for SIP Package**

Output Type	Pin 1	Pin 2	Pin 3	Pin 4
I <sup>2</sup> C	GND	V <sub>supply</sub>	SDA	SCL

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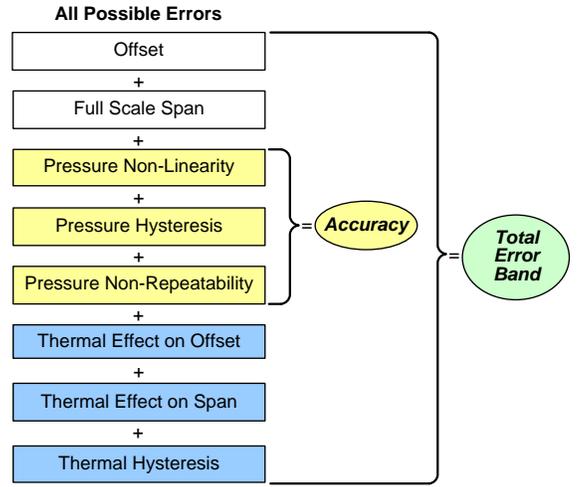
**Figure 3. Total Error Band Explanation**

Total Error Band should not be confused with accuracy, which is actually a component of Total Error Band, as shown to the right.

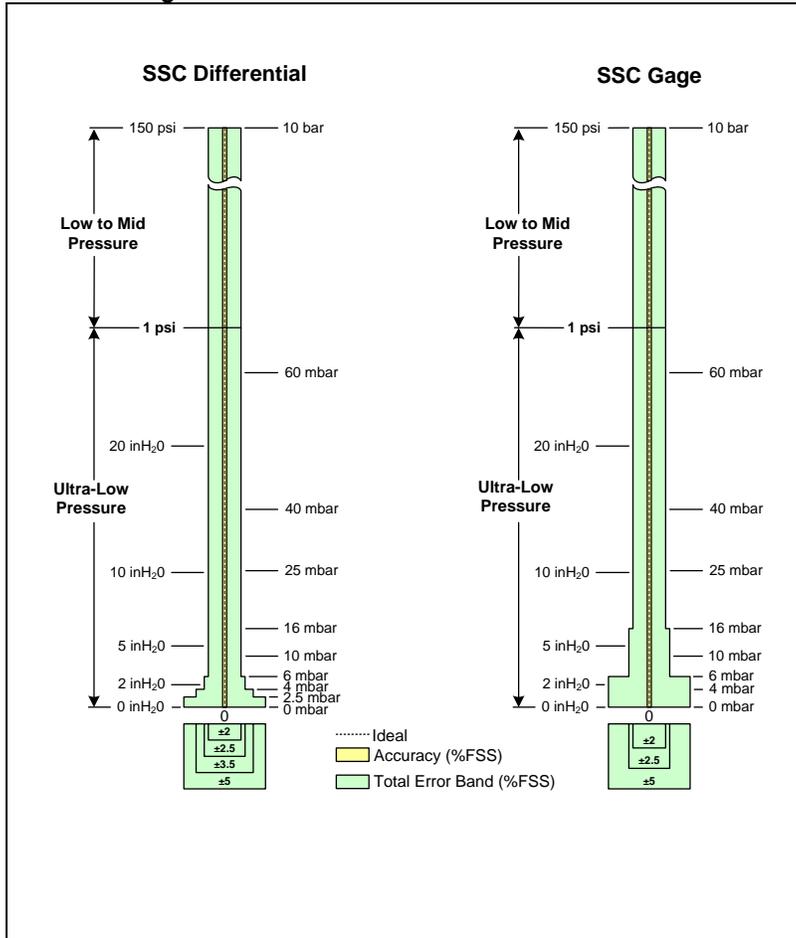
Many competitors simply specify the accuracy of their device; however, the specification may exclude errors, or may be calculated over a very narrow range, at only one point in the range, or at their absolute best accuracy level. It is then up to the customer to calibrate the device to make sure it has the accuracy needed for the life of the application.

Honeywell provides the Total Error Band to its customers so that they can implement the TruStability® sensors quickly and easily without having to calculate the effects of individual errors that might be encountered in their application.

All TruStability® products are designed to remain within Total Error Band after exposure to the environmental conditions in Table 3, including the solder reflow process.

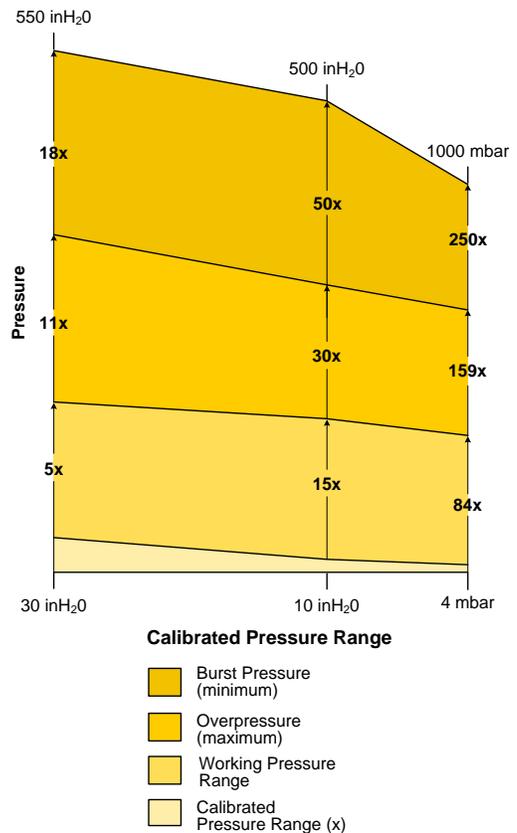


**Figure 4. SSC Series Total Error Band Values for Full Scale Span Pressure Ranges**



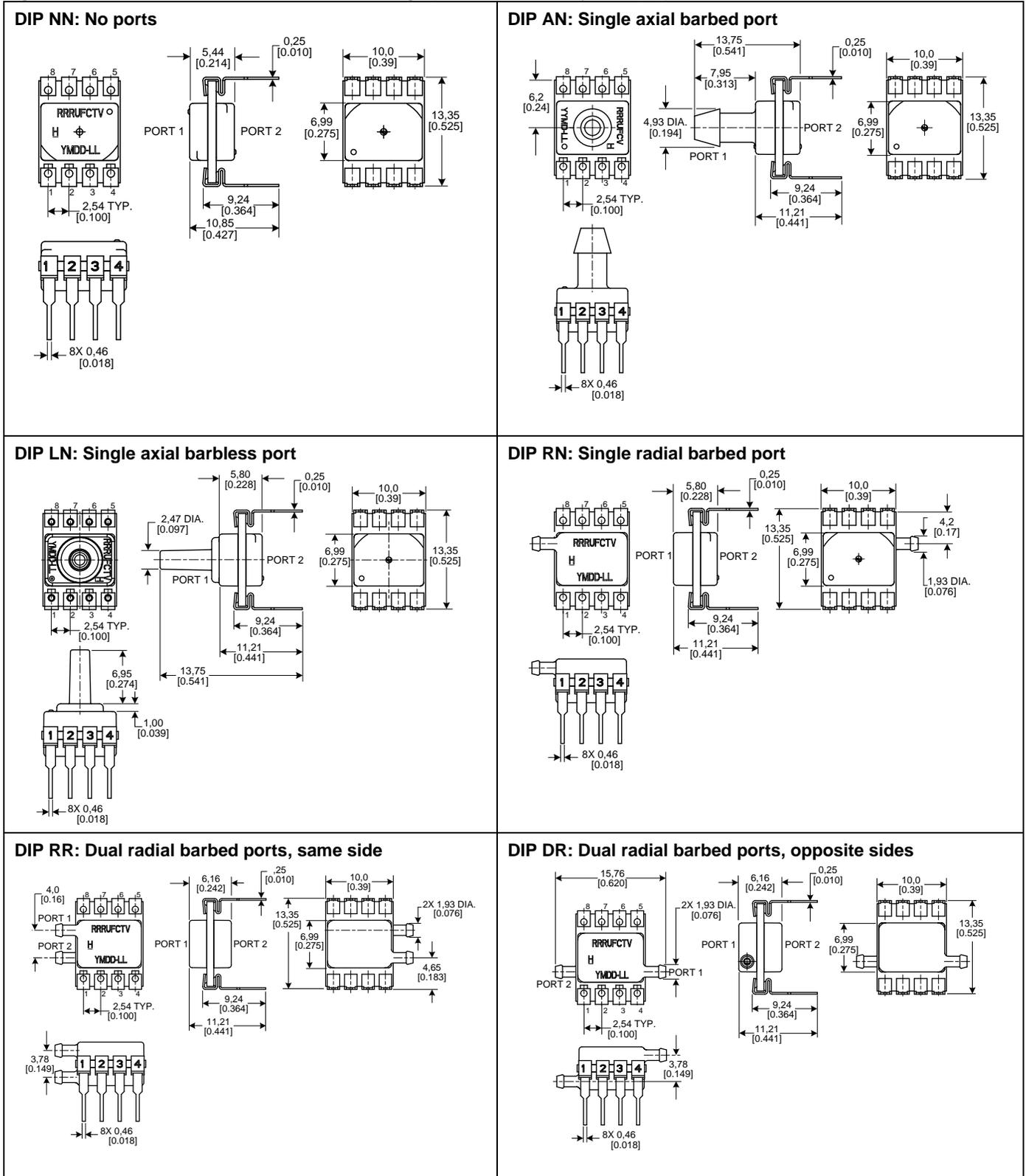
**Figure 5. Calibrated Pressure Range, Working Pressure, Overpressure and Burst Pressure Relationship**

The graphic below shows the relationship of the four pressure types at three locations: 30 inH<sub>2</sub>O, 10 inH<sub>2</sub>O and 4 mbar.



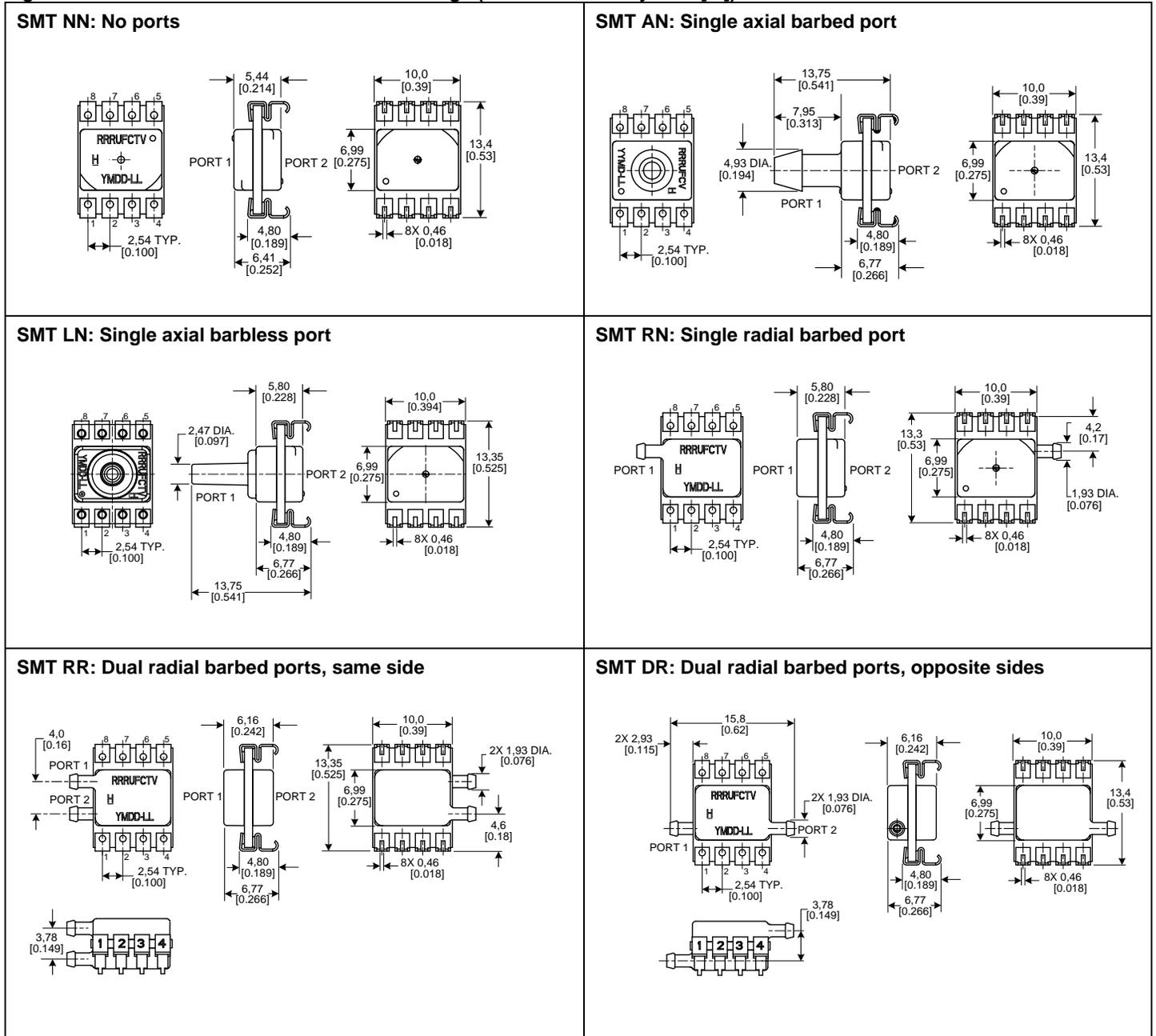
$\pm 2.5$  mbar to  $\pm 40$  mbar [ $\pm 1$  inH<sub>2</sub>O to  $\pm 30$  inH<sub>2</sub>O]

Figure 6. DIP Pressure Port Dimensional Drawings (For reference only: mm [in])



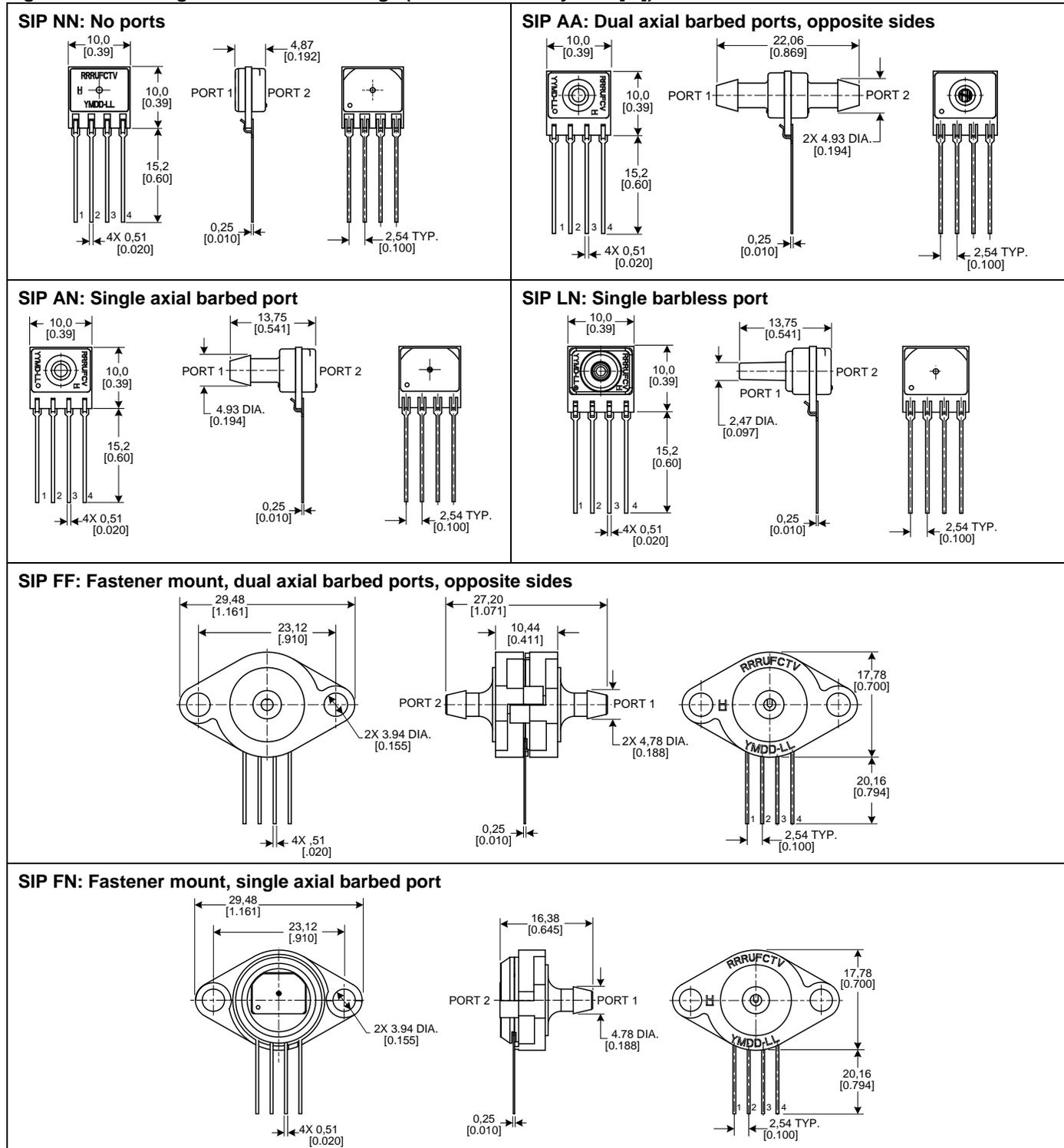
# TruStability® Board Mount Pressure Sensors: SSC Series—Standard Accuracy

Figure 7. SMT Pressure Port Dimensional Drawings (For reference only: mm [in])



$\pm 2.5$  mbar to  $\pm 40$  mbar [ $\pm 1$  inH<sub>2</sub>O to  $\pm 30$  inH<sub>2</sub>O]

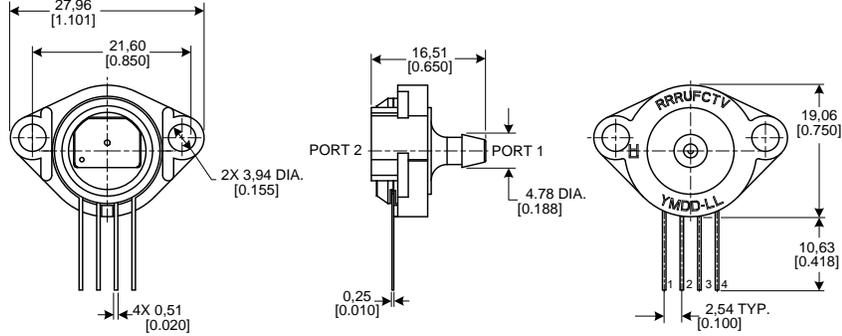
Figure 8. SIP Package Dimensional Drawings (For reference only: mm [in])



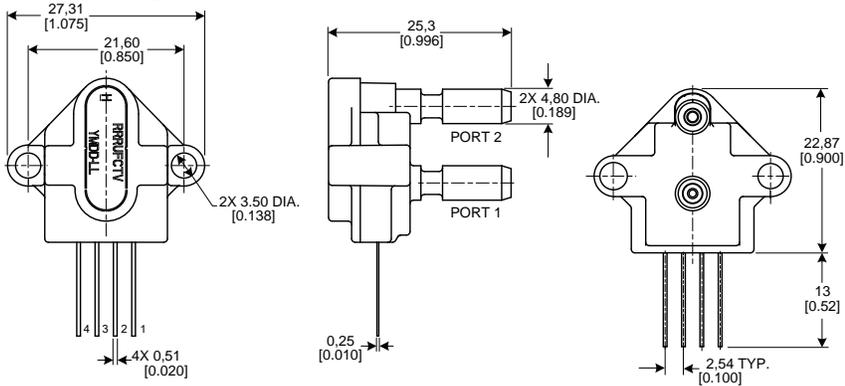
# TruStability® Board Mount Pressure Sensors: SSC Series—Standard Accuracy

Figure 8. SIP Package Dimensional Drawings (continued)

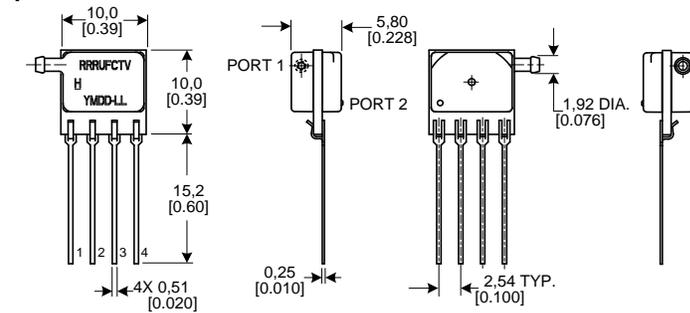
**SIP GN: Ribbed fastener mount, single axial barbed port**



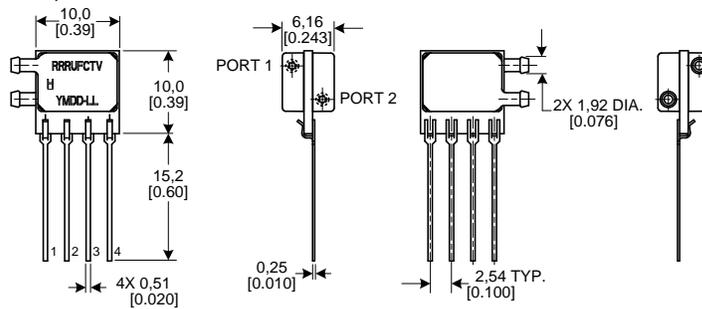
**SIP NB: Fastener mount, dual axial ports, same side**



**SIP RN: Single radial barbed port**

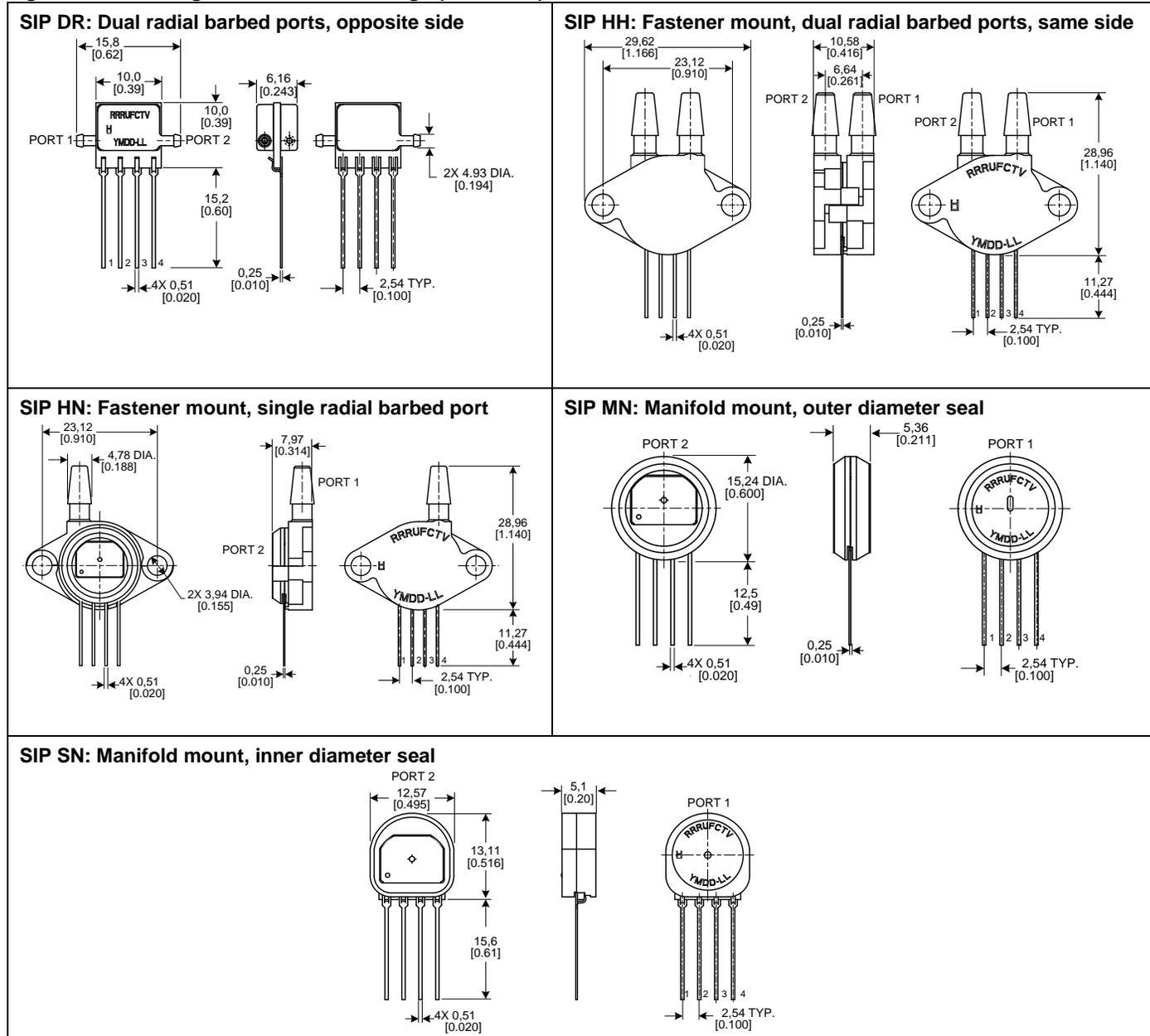


**SIP RR: Dual radial barbed ports, same side**



$\pm 2.5$  mbar to  $\pm 40$  mbar [ $\pm 1$  inH<sub>2</sub>O to  $\pm 30$  inH<sub>2</sub>O]

Figure 8. SIP Package Dimensional Drawings (continued)



## **WARNING**

### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARRANTY/REMEDY**

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

## **WARNING**

### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet is for reference only. DO NOT USE this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

### **SALES AND SERVICE**

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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